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sequently, [illegible] charge exchange $\pi^- + p \rightarrow \pi^0 + n$ was [illegible] was found to be $\sigma_{exp} = 0.12 + 0.02$ mb. The article briefly describes [illegible]

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L 41602-65
ACCESSION NR: AP5007716

process, the geometry of the experiment, the equipment, and the calibration of the Cerenkov $\gamma$-spectrometer. "The authors thank M.I. Podgoretskiy for numerous consultations and constant interest in the work." Orig. art. has: 1 formula and 4 figures.

ASSOCIATION: Ob" yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Studies)

SUBMITTED: 01Sep64 ENCL: 00 SUB CODE: NP, OP

NO REF SOV: 001 OTHER: 000

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

Card 2/2 mu

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

OZHDANIY, L.; PANTUYEV, V.S.; KHACHATURYAN, M.N.; CHUVILO, I.V.

The total cross section for interaction of neutrons with protons at the energy of 8.3 BeV. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1961. 5 p. (MIRA 14:11)
(No subject heading)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

C/026/62/018/004/007/009
F050/F003

AUTHOR: Dunaitsev, A. F., Pantuyev, V. S., Prokoshkin, Yu. D., Tang, Hsiao-wei (0781/1321/1218), and Khachaturyan, M. N.

TITLE: Measurement of the Panofsky ratio by the method of gamma-gamma coincidences

PERIODICAL: Wu Li Hsüeh Pao, v. 18, no. 4, 1962, 218-219

TEXT: There are two capture processes of stopped $\pi^-$ mesons in hydrogen

$$\pi^- + p \longrightarrow \pi^0 + n \longrightarrow \gamma' + \gamma'' + n \qquad (1)$$

$$\pi^- + p \longrightarrow \gamma + n \qquad (2)$$

where p is proton and n is neutron. The ratio of probability of these two processes is called the Panofsky ratio P. A new method was devised by the authors for measuring the Panofsky ratio by means of $\gamma$ - $\gamma$ coincidences. Procedures follow (see

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

MALY, B.; PANTUYEV, V.S.; KHACHATURYAN, M.N.

Twelve-channel pulse height analyzer. Prib. i tekh. eksp. 8 no.2:73-75 Mr-Ap '63. (MIRA 16:4)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Electronic apparatus and appliances)
(Pulse techniques (Electronics))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

BEKKER, B.I.; PANFILOV, V.S.; SVIRIDOV, V.A.; KHACHATUROVA, M.N.

Diffusion lengths by $^{32}P$ method in the activation [illegible] plates by high-energy protons. Zhur. eksp. i teor. fiz. 47 no.1:813-814. [illegible] 64.

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

44444

S/120/62/000/006/023/029
E032/E114

9,4160

AUTHORS: Ozhdyani, L., Pantuyev, V.S. and Khachaturyan, M.N.

TITLE: Time characteristics of photomultipliers with large photocathodes

PERIODICAL: Pribory i tekhnika eksperimenta, no. 6, 1962, 119-120

TEXT: The characteristics of the ФЭУ-44 (FEU-44) and ФЭУ-45 (FEU-45) photomultipliers, which have large photocathode areas and are therefore suitable for Cherenkov and scintillation counters, were investigated. The photocathodes are semi-transparent (Sb-Cs) with a maximum sensitivity at 4 000 Å, a quantum yield of about 10% at 4047 Å and an amplification factor of about $10^6$. They are both very sensitive to external fields and require careful screening. Their properties were determined with the aid of the spark generator described in a previous paper (Ya.M. Fogel', V.F. Kozlov, A.A. Kalmykov and V.I. Muratov, Zh. eksperim. i teor. fiz., v. 36, 1959, 1312) (spark length 1 ns). It was found that these photomultipliers were capable of producing pulse rise-times of 10-15 ns and were suitable for Cherenkov and scintillation counters working with fast coincidence circuits.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

S/120/62/000/006/023/029
E032/E114

Time characteristics of ....

There are 3 figures.

ASSOCIATION: Ob"yedinennyy institut yaderhykh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: July 7, 1961

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

S/120/62/000/005/012/036
E032/E314

AUTHORS: Ozhdyani, L., Pantuyev, V.S. and Khachaturyan, M.N.

TITLE: Application of spark discharges in scintillation technique

PERIODICAL: Pribory i tekhnika eksperimenta, no. 5, 1962, 80 - 83

TEXT: Generally, the auxiliary electronics in scintillation and Čerenkov counters are adjusted with the aid of pulse generators. This is time-consuming and inconvenient. The authors report in the present paper a method in which a relatively simple device may be used to adjust the counting apparatus under conditions very similar to the accelerator-running conditions. In this method short light pulses produced by spark discharges are simultaneously applied to a large number of counters and this simulates the passage of charged particles through the counters. Various spark generators were investigated and it was found that the best results (shortest light pulses) were obtained with high pressures and low molecular weights. Discharges in air at atmospheric pressures were also investigated.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

S/120/62/000/005/012/036
Application of spark .... E032/E314

Rise times of the order of 3-4 n sec were obtained with hydrogen and air. The pulses were triggered-off by a hydrogen thyratron or a simple RC integrating circuit. Improved frequency characteristics were achieved by using a multi-electrode system of the form shown in Fig. 6. This system can be used to obtain a repetition frequency of $10^6$ c.p.s. or more. Another system employed is illustrated in Fig. 7a, in which 1 is the spark gap, 2 the counter envelope, 3 phosphor, 4 the light pipe, 5 photomultiplier for the cathode and 6 is a magnetic shield. Various essentially conventional delay-line arrangements are also described. The general conclusion is that spark generators may be successfully used for the adjustment of pulse electronics operating in the n sec range. There are 11 figures.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Studies)

SUBMITTED: December 26, 1961

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

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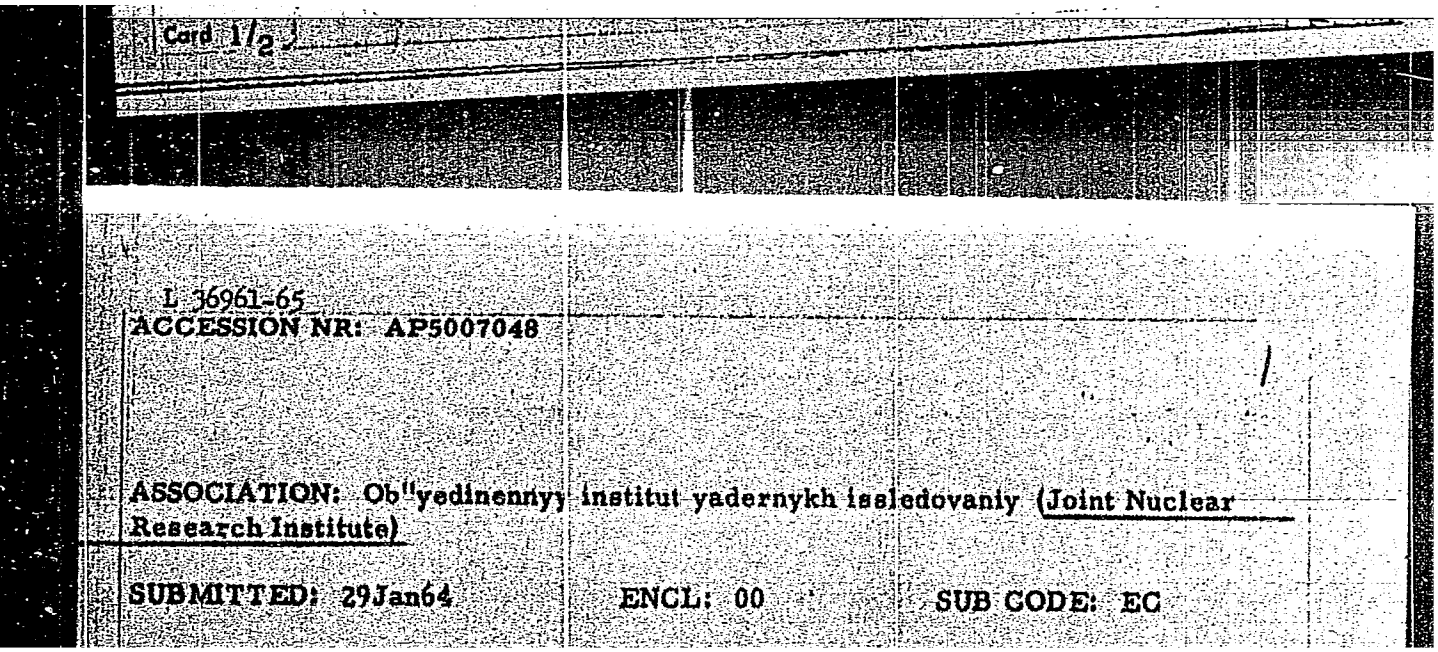

Card 1/2

L 36961-65
ACCESSION NR: AP5007048

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Nuclear Research Institute)

SUBMITTED: 29Jan64 ENCL: 00 SUB CODE: EC

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

Card 2/2 40

S/056/63/044/004/040/044
B102/B186

AUTHORS: Khachaturyan, M. N., Pantuyev, V. S.

TITLE: Total neutron-neutron interaction cross section at an energy of 8.3 Bev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 4, 1963, 1411 - 1412

TEXT: The total neutron-neutron interaction cross section was measured in the proton-synchrotron of the OIYaI. The neutron detector was a telescope consisting of scintillation counters and a total-absorption lead-glass Cherenkov counter; the monitor was a telescope consisting of three scintillation counters. The cross section was measured by a difference method with two targets ($H_2O$ and $D_2O$) of 50.01 and 55.60 g/cm$^2$, respectively. For $E_n$ = 8.3 Bev the result was $\sigma_{nn}$ = 31.5 ± 1.7 mb. Since the cross section additivity is violated due to screening, ($\sigma_{nd} = \sigma_{nn} + \sigma_{np} - \frac{1}{4\pi}\sigma_{nn}\sigma_{np}\langle r^{-2}\rangle$, Glauber, Phys. Rev. 100, 242, 1955) the correction factor is calculated. It was found to amount to 8 mb, which is a close agreement with Glauber's value

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Card 1/2

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

Total neutron-neutron interaction...

S/056/63/044/004/040/044
B102/B186

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: January 12, 1963

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 11376-63 BDS S/120/63/00/002/017/041

AUTHOR: Maly, B., Pantuyev, V. S., and Khachaturyan, M. N.

TITLE: Twelve-channel amplitude analyzer

PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2, 73-75

TEXT: The article describes a pulse-amplitude analyzer designed for nuclear spectroscopy. Pulses from a continuous spectrum are converted into pulses with 12 discrete amplitudes and distributed into the different channels by an LP-1 tube. The channel width is 5.79 v, the nonuniformity of the channels is ± percent, the threshold stability is ± 0.2 percent over 8 hr, and the dead time is 30 μsec. The analyzer was used for calibrating a total-absorption Cherenkov spectrometer. There are three figures.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: June 18, 1962

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUIEV, V. S., PROKOSHKIN, YU. D., KHACHATURYAN, M. N., DUNAYTSEV, A. F.,

"Measurement of the Panofisky Ratio by the Mehtod of Gamma-Gamma Coincidents"

paper presented at the Intl Conference on High Energy Physics, Rochester, N. Y. and/or Berkly California, 25 Aug - 16 Sep 1960.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

KHACHATURYAN, M.N.; PANTUYEV, V.S.

Total cross section of neutron-neutron interaction at an energy of 8.3 Bev. Zhur. eksp. i teor. fiz. 44 no.4:1411-1412 Ap '63. (MIRA 16:4)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear counters) (Neutrons)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

BEKKER, B.I.; PANTUYEV, V.S.; SVIRIDOV, V.A.; KHACHATURYAN, M.N.

Measurement of the cross section of the $C^{12}(p, pn)C^{11}$ reaction at an energy of 9 Bev. Zhur. eksp. i teor. fiz. 45 no.4:1269-1270 O '63. (MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledoganiy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

ACCESSION NR: AP4009098 S/0056/63/045/006/1808/1810

AUTHORS: Khachaturyan, M. N.; Pantuyev, V. S.

TITLE: Total cross section for the interaction between neutrons and protons at 5.5 GeV

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1808-1810

TOPIC TAGS: neutron proton interaction, np interaction cross section, np total cross section

ABSTRACT: The total cross section for the interaction of 5.5 GeV neutrons with protons was measured with apparatus previously described (ZhETF v. 42, 392 and 909, 1962; ZhETF v. 44, 1411, 1963), using targets of polyethylene and carbon 48.53 and 41.56 g/cm$^2$ thick, respectively. Some 1000 experimental points were obtained by alternately exposing the polyethylene and carbon to approximately 10--15

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

KHACHATURYAN, M.N.; [illegible]

Cherenkov spectrometer for measuring the energy of gamma quanta. Prib. i tekh. eksp. 8 no.6:29-32 N-D '62. (MIR 17:6)

1. Ob"yedinennyy [illegible] yadernykh issledovaniy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V.S.; KHACHATURYAN, M.N.

Pulse height analysis with photographic recording on a moving film. Atom.energ. 16 no. 5:444-446 My '64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V.S.; KHACHATURYAN, M.N.; CHUVILO, I.V.

Using the Cherenkov spectrometer for measuring the energy of gamma-ray quanta. Prib.i tekh.eksp. no.1:19-22 Ja-F '60. (MIRA 13:6)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Spectrometer) (Gamma rays)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

69068
S/120/60/000/01/003/051
E032/E314

21.5300

AUTHORS: Pantuyev, V.S., Khachaturyan, M.N. and Chuvilo, I.V.

TITLE: A Cherenkov Spectrometer for the Measurement of Gamma-ray Energies

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 1, pp 19 - 22 (USSR)

ABSTRACT: A description is given of the construction and the principle of a Cherenkov gamma spectrometer. The spectrometer is designed for gamma-ray energy measurements in the energy interval between 100 MeV and a few GeV. The spectrometer is based on the following principle. The incident gamma quanta form electron-photon showers in a lead-glass "radiator". A considerable fraction of the energy of the shower is absorbed in the latter. The Cherenkov radiation emitted by the charged component of the shower is taken as a measure of the initial energy of the gamma quantum. The spectrometer has been calibrated using mono-energetic electrons in the energy interval between 100 and 130 MeV. Energy resolution of the spectrometer at 200 MeV is ± 40%. The spectrometer has a 100% efficiency and is linear. Figure 4 shows a

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A Cherenkov Spectrometer for the Measurement of Gamma-ray Energies

typical distribution curve obtained with the spectrometer at 200 MeV. This curve represents the number of pulses per channel as a function of the amplitude of the pulses (both in arbitrary units). Figure 5 shows the amplitude of the Cherenkov pulses (in arbitrary units) in the maximum of the above distribution as a function of the energy of electrons in the calibration experiments. The energy (in MeV) is plotted along the horizontal axis. As can be seen, the relation is linear. There are 5 figures and 8 references, 1 of which is Italian, 1 Soviet, 1 Japanese and 5 are English.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Studies)

SUBMITTED: December 29, 1958

4



APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

OZHDANIY, L.; PANTUYEV, V.S.; KHACHATURYAN, M.N.; CHUVILO, I.V.

The total cross section for interaction of neutrons with protons at the energy of 8.3 BeV. Dubna, Izdatel'skii otdel Ob"edinennogo in-ta iadernykh issledovanii, 1961. 5 p.
(No subject heading)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V.S.; KHACHATURYAN, M.N.

Cross section for 8,3 BeV neutron interaction with nuclei.
Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 5 p.
(No subject heading)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

S/056/62/042/002/014/055
B102/B138

AUTHORS: Ozhdyani, L., Pantuyev, V. S., Khachaturyan, M. N., Chuvilo, I. V.

TITLE: Total neutron-proton interaction cross section at 8.3 Bev

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 2, 1962, 392-394

TEXT: The neutron-proton interaction cross sections at $\bar{E}_{n(lab)} = 8.3^{+1.2}_{-1.3}$ Bev have been measured in good geometry ($\vartheta/2 = 0.228^{\circ}$). The neutral beam was produced in a 10-cm thick Be-target inside the vacuum chamber of the OIYaI proton synchrotron. The beam had to pass through the 5-cm opening of a 250 cm long steel collimator (divergency $\leq 0.07^{\circ}$). The gamma quanta contained in the neutral beam due to $\pi^0$ decays were eliminated by two lead filters, the charged particles by a field of 18,000 oe (Fig. 1). Apart from these impurities the beam contained only neutrons and a negligible amount of $K_2^0$ mesons. The neutron detector consisted of an anticoincidence scintillation counter, a 10-cm Al converter, three coincidence scintillation counters and a lead glass Cherenkov spectrometer.
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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

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B102/B138

Total neutron-proton interaction ...

The counting efficiency of the detector was ~1%. The monitor was a telescope of three scintillation counters and an Al converter. The steel collimator was 18.5 m, and the lead collimator 17.0 m, from the accelerator target. The p-n interaction was measured in polyethylene (48.53, 23.66 g/cm$^2$) and carbon (41.56 and 20.32 g/cm$^2$) targets; the total p-n interaction cross section was 41.2 ± 2.6 mb. This value exceeds that obtained for $E_n$ = 4.5 Bev. Academician V. I. Veksler is thanked for interest and discussions; B. A. Kulakov, Yu. A. Matulenko, M. F. Likhachev, I. A. Savin, V. S. Stavinskiy, M. D. Shafranov, N. V. Leonov V. I. Ivanov, V. F. Kuranov and L. P. Zinov'yev and the accelerator team for assistance. There are 2 figures and 6 non-Soviet references. The four most recent references to English-language publications read as follows: M. E. Low et al. Nucl. Phys. 9, 600, 1959; A. P. Batson et al Proc. Roy. Soc. A251, 233, 1959; V. Perez-Mendez et al. Bull. Amer. Phys. Soc. 4, 253, 1959; A. Ashmore et al. Phys. Rev. Lett., 5, 567, 1960.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: August 28, 1961

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V.S.; KHACHATURYAN, M.N.

Cross section of neutron interaction with nuclei at an energy of 8.3 Bev. Zhur.eksp.i teor.fiz. 42 no.3:909-910 Mr '62. (MIRA 15:4)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions) (Neutrons)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V. S.; KHACHATURYAN, M. N.; CHUVILO, I. V.

"Cross Sections of the Interaction of Neutrons with Protons and Nuclei in the Energy Interval 2,0 - 8,3 Gev "

Report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Inst. for Nuclear Research, Lab of High Energies

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

S/056/62/042/003/044/049
B108/B102

AUTHORS: Pantuyev, V. S., Khachaturyan, M. N.

TITLE: Interaction cross section of 8.3-Bev neutrons with nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 3, 1962, 909-910

TEXT: The total and inelastic scattering cross sections for 8.3-Bev neutrons on C, Al, Cu, Sn, and Pb nuclei were measured at the proton synchrotron of the OIYaI. The measurements were made by varying the distance target and detector. The C, Cu, and Pb specimens were respectively 20.33, 53.47, and 60.50 g/cm$^2$ thick. The results (Tables 1,2) show that the inelastic scattering cross sections are constant over a large energy range. The observed decrease in total scattering cross section with increasing energy is due to the decrease in diffraction scattering. A theoretical treatment will be given in a subsequent paper. V. I. Veksler and I. V. Chuvilo are thanked for interest and discussions, L. P. Zinov'yev and the synchrotron team for their careful work. There are 1 figure, 2 tables, and 4 references: 1 Soviet and 3 non-Soviet. The

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

Interaction cross section of ...

S/056/62/042/003/044/049
B108/B102

three references to English-language publications read as follows: T. Coor et al. Phys. Rev., 98, 1369, 1955; J. H. Atkinson et al. Phys. Rev. Lett., 2, 168, 1959; P. H. Barrett. Phys. Rev., 114, 1374, 1959.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: January 11, 1962

Table 1. Interaction cross section (mbr) of neutrons with nuclei as depending on the angle θ (degrees).

Table 2. Total and inelastic interaction cross sections (mbr) as depending on neutron energy. Legend: (1) energy, Bev.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

ACCESSION NR: AP4019254 S/0056/64/046/002/0813/0814

AUTHORS: Bekker, B. I.; Pantuyev, V. S.; Sviridov, V. A.; Khachaturyan, M. N.

TITLE: Diffusion losses of C-11 nuclei in the activation of plastic films by high energy protons

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 813-814

TOPIC TAGS: carbon 11 nuclei, loss of carbon 11, carbon 11 loss, proton beam intensity measurement, carbon 11 diffusion loss, polyethylene, ethylene and propylene copolymer

ABSTRACT: Since the loss of $C^{11}$ nuclei from activated plastic films used to measure the accelerator internal proton beam intensity can introduce appreciable errors, and since these losses have been found to vary from one batch of plastic to another, the authors measured these losses in samples of the same plastic then used in

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

ACCESSION NR: AP4019254

one of their experiments (International Conference on High-Energy Physics, CERN, 1962). Stacks of polyethylene film and of films of a copolymer of ethylene with propylene, 0.2 to 20 mg/cm$^2$ thick, were irradiated by the internal proton beam of the proton synchrotron at 9 GeV. The percentage loss due to diffusion was measured with a 95 mg/cm$^2$ polystyrene scintillator. The diffusion losses obtained under different exposures ranged from 9 to 14% with an average of 11.8 $\pm$ 1%. These losses were found to be independent, over a wide energy range, of both radiation intensity and energy or character of irradiating particles. "The authors are grateful to M. Shafranov and L. Strunov for help and useful discussions."

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 03Oct63 DATE ACQ: 27Mar64 ENCL: 00

SUB CODE: PH NO REF SOV: 001 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

OZHDYANI, L.; PANTUYEV, V.S.; KHACHATURYAN, M.N.; CHUVILO, I.V.

Total cross section of proton-neutron interaction at an energy of 8.3 Bev. [with summary in English]. Zhur. eksp. i teor. fiz. 42 no.2:392-394 F '62. (MIRA 15:2)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

OZHDYANI, L.; PANTUYEV, V.S.; KHACHATURYAN, M.N.

Tracking a neutral particle beam by means of a gamma source.
Prib. i tekh. eksp. 6 no.2:173-174 Mr-Ap '61 (MIRA 14:9)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Particles (Nuclear physics))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 24301-66 EWT(m) DIAAP

ACC NR: AP6006795 SOURCE CODE: UR/0386/66/003/001/0015/0021

AUTHOR: Zolin, L. S.; Kirillova, L. F.; Liu, Ch'ing-ch'iang; Nikitin, V. A.; Pantuyev, V. S.; Sviridov, V. A.; Strunov, L. N.; Khachaturyan, M. N.; Shafranova, M. G.; Korbel, Z.; Rob, L.; Devinski, P.; Zlatanov, Z.; Markov, P.; Khristov, L.; Chernev, Kh.; Dalkhazhav, N.; Tuvdendorzh, D.

ORG: [Zolin, Kirillova, Liu, Nikitin, Pantuyev, Sviridov, Strunov, Khachaturyan, Shafranova] Joint Institute of Nuclear Research, Dubna (Ob"yedinennyy institut yadernykh issledovaniy); [Korbel, Rob] Czechoslovakian Higher Technical School, Prague (Cheshskoye vysshcye tekhnicheskoye uchilishche); [Devinski, Zlatanov, Markov, Khristov, Chernev] Physics Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy akademii nauk); [Dalkhazhav, Tuvdendorzh] Institute of Physics and Chemistry, Mongolian Academy of Sciences, Ulan Bator (Institut fiziki i khimii Mongol'skoy akademii nauk)

TITLE: Real part of the pn scattering amplitude in the energy interval 2--10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 15-21

TOPIC TAGS: proton scattering, neutron scattering, scattering amplitude, differential cross section, deuteron reaction

ABSTRACT: On the basis of experimental data obtained by the authors on elastic pd scattering in the energy interval 1--10 Gev, and information on pp scattering amplitude in this energy range, the authors determined the real part of the scattering

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L 24301-66

ACC NR: AP6006795

amplitude by means of an experiment involving registration of slow recoil deuterons from a film target of deuterated polyethylene 0.5--0.6 μ thick. The investigated range of the squared momentum transfer was $0.003 < |t| < 0.2$ (Gev/c)$^2$. Plots are presented of the differential cross sections vs. the square of the momentum transfer and an empirical formula is given for these plots. The value obtained for the total cross section of elastic pd scattering at 6 Gev is several times smaller than that measured by others. In the small-angle region of pd scattering, constructive interferences were observed between the Coulomb and nuclear scatterings. From the obtained real part of the pd scattering amplitude, and from a comparison of the obtained data with earlier measurements by the authors of the pp scattering amplitude of the same energies (ZhETF v. 50, 76, 1966), the estimated real part of the pn scattering amplitude is +0.2, -0.06, -0.45, and -0.40 for 2, 6, 8, and 10 Gev respectively. The small nonzero real part of the pn scattering amplitude agrees with data obtained at CERN (G. Bellettini et al., Internat. Conf on Elementary Particles, Oxford, 1965). Orig. art. has: 2 figures, 3 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 12Nov65/ ORIG REF: 005/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 21802-66 EWT(m)/T

ACC NR: AP6012191 SOURCE CODE: UR/0386/66/003/008/0336/0340

AUTHOR: Azimov, M. A.; Basova, Ye. N.; Gulyamov, U. G.; Igamberdiyev, K. R.; Kolesnik, V. G.; Pantuyev, V. S.; Sil'vestrov, L. V.; Khachaturyan, M. N.

ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy); Institute of Nuclear Physics, AN UzSSR, Tashkent (Institut yadernoy fiziki AN UzSSR)

TITLE: Differential cross section of charge exchange of 4.8-Gev/c $\pi^-$ mesons with protons

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 8, 1966, 336-340

TOPIC TAGS: pion, charge exchange, differential cross section, spark chamber, Gamma radiation, meson, proton

ABSTRACT: The authors present preliminary results of the measurement of the differential cross section of the reaction $\pi^- + p \rightarrow n + \pi^0$ by a method described earlier (Preprint OIYaI, R-2436, Dubna, 1965), of detecting high-energy $\pi^0$ mesons with the aid of a spark chamber and a total-absorption Cerenkov counter. Unlike other methods, this method makes it possible to measure with good accuracy both the angle and the energy characteristics of $\gamma$ quanta from $\pi^0$ meson decays. The

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 21802-66
ACC NR: AP6012191

setup was irradiated in a beam of 4.8-Gev/c $\pi^-$ mesons from the OIYaI proton synchrotron. The measurements were made by a difference method using polyethylene and carbon targets. From the energy and angular distributions of the cases when two $\gamma$ quanta were registered in the chamber the authors calculated the differential and total cross section of the reaction, with corrections evaluated for the following effects: (a) probability of conversion of two $\gamma$ quanta in the lead converter, (b) probability of conversion of at least one of the $\gamma$ quanta in the target or in the scintillation-counter material, (c) muon contamination of the beam, and (d) attenuation of the beam in the target. The averaged forward charge-exchange cross section was found to be 0.49 ± 0.1 mb/(Gev/c)$^2$, or 0.33 ± 0.07 mb/sr in units of solid angle (c.m.s.) (compared with 0.28 mb/sr from calculation based on the dispersion relations and the known data on the total cross sections of the $\pi^+p$ and $\pi^-p$ interactions. The total cross section of the reaction, calculated with account of the experimental geometry and published data on the differential charge-exchange cross section at large 4-momentum transfer is equal to 0.11 ± 0.02 mb.
The authors thank V. G. Grishin and M. I. Podgoretskiy for useful discussions, S. V. Mukhin, S. V. Rikhvitskiy, and I. N. Semenyushkin for the opportunity to use the pion channel, and I. V. Chuvilo, M. D. Shafranov, and I. M. Gramenitskiy for collaboration. Orig. art. has: 2 figures and 2 formulas.

SUB CODE: 20/ SUBM DATE: 8Mar66/ ORIG REF: 002/ OTH REF: 004

Card 2/2 PB

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTUYEV, V.S.; KHACHATURYAN, M.N.; CHUVILO, I.V.

Total cross sections of neutron-proton and neutron-neutron interactions in the energy range from 2.6 to 8.3 Bev. IAd. fiz. 1 no.1:134-144 Ja '65. (MIRA 18:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

AZIMOV, M.A.; PANTUYEV, V.S.; SIL'VESTROV, L.V.; KHACHATURYAN, M.N.; CHUVILO, I.V.

Cross section of pion charge exchange at 4 Bev./c. IAd. fiz. 1 no.1: 145-147 Ja '65. (MIRA 18:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

GAZARYAN, K.A.; PANTUYEV, V.S.; KHACHATURYAN, M.N.

Nanosecond light pulse generator. Prib. i tekh. eksp. 10 no.1:161-163 Ja-F '65. (MIRA 18:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

KIRILLOVA, L.F.; NIKITIN, V.A.; PANTUYEV, V.S.; SVIRIDOV, V.A.; STRUNOV, L.N.; KHACHATURYAN, M.N.; KHRISTOV, L.G.; SHAFRANOVA, M.G.; KORBEL, Z.; ROB, L.; DAMYANOV, S.; ZLATEVA, A.; ZLATANOV, Z.; YORDANOV, V. [Iordanov, V.]; KANAZIRSKI, Kh.; MARKOV, P.; TODOROV, T.; CHERNEV, Kh.; DALKHAZHAV, N.; TUVDENDORZH, D.

Elastic pp and pd-scattering at small angles in the energy range 2 - 10 Bev. IAd. fiz. 1 no.3:533-539 Mr '65. (MIRA 18:5)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Vyssheye tekhnicheskoye uchilishche, Praga (for Korbel, Rob). 3. Fizicheskiy institut Bolgarskoy Akademii nauk, Sofiya (for Damyanov, Zlateva, Zlatanov, Yordanov, Kanazirski, Markov, Todorov, Chernev). 4. Institut khimii i fiziki, Ulan-Bator, Mongol'skaya Narodnaya Respublika (for Dalkhazhav, Tuvdendorzh).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 42988-65 EWT(1)/EWT(m)/T/EWA(h) Pz-6/Peb IJP(c) AT

ACCESSION NR: AP5006536 S/0056/65/048/002/0767/0769

AUTHOR: Akimov, Yu. K.; Kalinin, A. I.; Nikitin, V. A.; Pantuyev, V. S.; Sviridov, V. A.; Sidorov, A. I.; Khachaturyan, M. N.

TITLE: A method for studying elastic *pp*-scattering in the high energy region using semiconductor counters

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 767-769

TOPIC TAGS: proton scattering, high energy proton scattering, proton semiconductor counter

ABSTRACT: The possibility of studying high energy proton elastic scattering in the region of weak transmitted impulses $1{,}5\cdot10^{-3}\,\mathrm{GeV}^2/c^2 \leq -t \leq 1{,}5\cdot10^{-1}\,\mathrm{GeV}^2/c^2$ using semi-

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(case a), a sharp peak is seen for protons transmitted with an energy of 2.2Mev.

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ACCESSION NR: AP5006536

The peak width at the semi-peak points, covering about 330Kev or 15%, was determined basically by Coulomb scattering of protons transmitted to the target and by test geometry. For comparison (case *b*), the distribution of particles emitted from the same target under identical conditions, along mean free paths in a 25% photographic emulsion, is given. The peak for elastically scattered protons has a halfwidth of $\Delta E/E \approx 18\%$, i.e., somewhat wider scattering than obtained with a

In conclusion the authors thank L. I. Lipidus and I. V.

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assistance in the experiment." Orig. art. has: 1 figure, 1 formula.

ASSOCIATION: Ob"yedinenyy institut yadernykh issledovaniy (Joint Institute of Nuclear Investigations)

SUBMITTED: 03Dec64 ENCL: 01 SUB CODE: NP, EC

NO REF SOV: 001 OTHER: 001

Card 2/3

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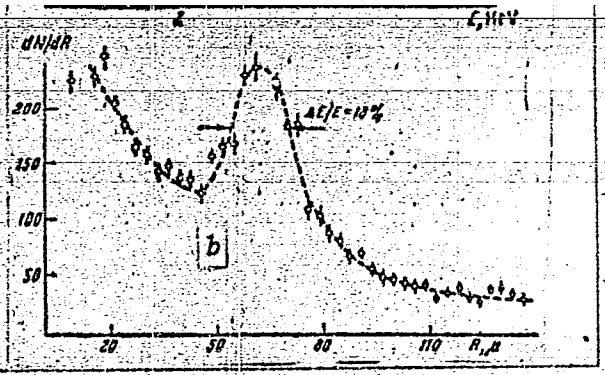
"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

ribution by mean free paths in a 25% diluted gelatin photoemulsion




Card 3/3

PANTYIK, V.

Shaft derricks. p. 288. (Banyaszati Lapok, Vol. 11, no. 5, May 1956 Budapest)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

AID P - 4693

Subject : USSR/Aeronautics - Civil aviation (materiel)

Card 1/2 Pub. 58 - 5/17

Authors : Simonov, M., Engineer, Monitor of the Glider Pilots' Group, Kazan Aviation Institute, G. Vorob'yev, Assistant Professor in charge of the Institute's Department of Designing and Construction of Aircraft, A. Pantyukhin, Secretary, Komsomol Committee of the Institute.

Title : New types of airplanes and helicopters must be created for Soviet sportsmen.

Periodical : Kryl. rod., 5, 6, My 1956

Abstract : The authors advocate the creation of a light jet plane for the training of students in DOSAAF organizations, as well as the creation of a certain number of jet and piston engine planes specially designed for achieving record performances. Also is recommended the setting up, at the primary DOSAAF organizations, of student designing and construction groups.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

AID P - 4693

Kryl. rod., 5, 6, My 1956

Card 2/2 Pub. 58 - 6/17

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

TRIFONOVA, L.F.; BOYCHUK, V.A.; VERBITSKIY, P.G.; PANTYUKHIN, A.I.

Characteristics of some soil forming rocks in the Valdai Hills and the Il'men' lowland. Vest. LGU 20 no.3:115-125 '65.
(MIRA 18:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

VERETSKIY, [illegible], A.F.

Determining the disintegration degree of argillaceous minerals during pelitization. Dokl. AN SSSR 158 no.6:1364-1367 O '64.
(MIRA 17:12)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavlena akademikom N.M. Strakhovym.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, A.I.

Use of quick-setting plastics in orthodontia. Stomatologiia 41 no.5:77-78 S-O '62. (MIRA 16:4)

1. Iz Izhevskoy stomatologicheskoy poliklinniki (glavnyy vrach S.G.Mal'tsev).
(ORTHODONTIA) (PLASTICS IN MEDICINE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, D.V.

Effect of penicillin on blood coagulation. Farm.i toks. 23 no.4: 341-343 Jl-Ag '60. (MIRA 14:3)

1. Klinika gospital'noy terapii (zav. - dotsent V.Ye.Bogdanov) i kafedra patologicheskoy fiziologii (zav. - prof. I.A.Oyvin) Kubanskogo gosudarstvennogo meditsinskogo instituta imeni Krasnoy Armii.
(PENICILLIN) (BLOOD—COAGULATION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, I., agronom

Overcome lags in the feed-milling industry of White Russia.
Mukomel.prom. 27 no.5:26-27 My '61. (MIRA 14:6)

1. Starshiy kontroler Komissii sovetskogo kontrolya Soveta Ministrov BSSR.
(White Russia—Feed mills)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, N.

Salt Mines and Mining - Velichka, Poland

In the salt mines of Velichka. Vokrug svets, No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952. 1953, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, N.

On the Vistula River. Vokrug sveta no.8:8-13 Ag '53. (MLRA 6:7)
(Vistula valley)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, V.P., assistent.

New model of a stroboscope. Vest. oto-rin. 16 no.5:71-73 S-O '54.
(MLRA 7:12)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. prof. S.A.Proskuryakov) Novosibirskogo meditsinskogo instituta.
(VOCAL CORDS, physiology,
stroboscopy, appar.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

ANTONOVA, M.M.; PANTYUKHIN, V.P.

Appliance for warming the air inspired by laryngectomized patients. Vop. onk. 6 no. 11:102-103 N '60. (MIRA 14:1)
(LARYNX—SURGERY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, V.P.

Laryngostroboscopic apparatus. Med. prom. 14 no. 10:9-13 O '60.
(MIRA 13:10)

1. Novosibirskaya gosudarstvennaya konservatoriya imeni M.I. Glinki.
(LARYNGOSTROBOSCOPE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKhIN, V.P., Cand. Med. Sci., — (diss) "To the question on the Stroboscopic methods of investigation during certain conditions of the vpcal apparatus," Novosibirsk, 1961, 11 pp (First Moscow Medical Institute im. I. M. Sechenov) 250 copies (KL-Supp 9-61, 191)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, V. P.

Stroboscopy in patients following laryngectomy. Vest. otorin. no.3: 69-73 '61. (MIRA 14:12)

1. Iz Otorinolaringologicheskogo otdeleniya 1-y bol'nitsy Novosibirska.

(LARYNX—SURGERY) (STROBOSCOPY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, V.P.

Role of laryngoscopic examinations for vocal students. Zhur.ush., nos.i gorl.bol. 21 no.6:61-64 N-D '61. (MIRA 15:11)

1. Iz Novosibirskoy gosudarstvennoy konservatorii imeni M.I.Glinki.
(LARYNGOSCOPE AND LARYNGOSCOPY)
(SINGERS—DISEASES AND HYGIENE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, Yu.

Sprayer with an attachment for internal roughing of tires.
Avt. transp. 41 no.5:22-23 My '63. (MIRA 16:10)

(Tires, Rubber--Repairing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHIN, Yu.

Spreader for testing tires. Avt.tranps. 40 no.4:52-53 Ap '62. (MIRA 15:4)

1. Nachal'nik tekhnicheskogo otdela Kochubeyevskogo zavoda Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya.

(Tires, Rubber—Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHINA, L.A., Cand Agr Sci — (diss) "On ~~the~~ problem of the selection of ~~parental~~ forms in cultivation of varieties and seedlings of potatoes ~~which~~ resist ~~the~~ phytophtora and ~~the~~ ~~canker~~ canker." Minsk, 1959, 20 pp (Acad of Agr Sci. Belorussian Sci Res Inst of ~~Ground Cultivation~~ agriculture) 350 copies (KL, 34-59, 116)



APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

1. PANTYUKHINA, L. A.

2. USSR (600)

4. Plants nutrition

7. Influence of different nutritional conditions on the development of economically valuable characteristics in potato seedlings. Sel i sem 19 no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

1. PANTYUKHINA, L. A.

2. USSR (600)

4. Potatoes

7. Influence of different nutritional conditions on the development of economically valuable characteristics in potato seedlings. Sel. i sem. 19 no.10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

L 38548-65 EWT(d)/TDB(jj)/BXT/T/EED-2/EWP(1) Pq-4/Pg-4/Pk-4 IJP(c) EB/GG
ACCESSION NR: AP5007985 S/0315/65/000/001/0023/0025

AUTHORS: Seyfer, A. L.; Matveyeva, A. A.; Pantyukhina, M. Ye. 47 B

TITLE: Machine translation of formulae of inorganic compounds in systematic nomenclature 16

SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 1, 1965, 23-25

TOPIC TAGS: chemical identification technique, information storage and retrieval, chemical, chemistry, information processing, data processing / Ural 4 computer

ABSTRACT: The problem of selecting a standardized system of inorganic compound nomenclature so that it is possible to store, retrieve, and process chemical formulae in computer memory is discussed. The requirements of such a language are: 1) that it be formal and nonambiguous, 2) that it be processable by a com-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2



L 38548-65
ACCESSION NR: AP5007985

the form Aa Bb Cc Dd..., the form aA bB cC dD can be used in the translation. The translator process takes place on a Ural-4 computer with the aid of a stored chemical dictionary with elements, valences, and atomic groups. The majority of elements are stored by their Russian names. The atomic grouping consists of 100 dictionary entries stored according to terminology generally accepted in chemical literature. Translation of a single name requires less than one second of machine time; the program for translation consists of 2000 instructions. Several

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

examples of translation are given.

ASSOCIATION: none

SUBMITTED: 05Oct64 ENCL: 00 SUB CODE: DP,IC

NO REF SOV: 008 OTHER: 001

Card 2/2

KVASNIKOV, Ye.I.; GRINEVICH, A.G.; PANTYUKHINA, Ye.A.

Some characteristics of changes in the properties of lactic acid bacteria due to the action of gamma rays emitted by radioactive $Co^{60}$. Trudy Inst. mikrobiol. no.10:82-88 '61. (MIRA 14:7)

1. Institut botaniki AN UzSSR.
(LACTIC ACID BACTERIA) (GAMMA RAYS--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHINA, Ye.L.; KONDRAT'YEVA, Ye.V.; VOROPAYEVA, O.G.

Radioresistance of some epiphytic micro-organisms of grapes and pomegranate. Uzb. biol. zhur. 8 no.4:10-13 '64. (MIRA 18:7)

1. Institut yadernoy fiziki AN UzbSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

GRINEVICH, A. G.; PANTIUKHINA, Ye.L.

Effect of gamma rays on dry cultures of lactic acid bacteria. Uzb. biol. zhur. no.5:3-10 '60. (MIRA 13:11)

1. Institut botaniki AN UzSSR.
(Lactic acid bacteria) (Gamma rays--Pysiological effect)
(Freeze-drying)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

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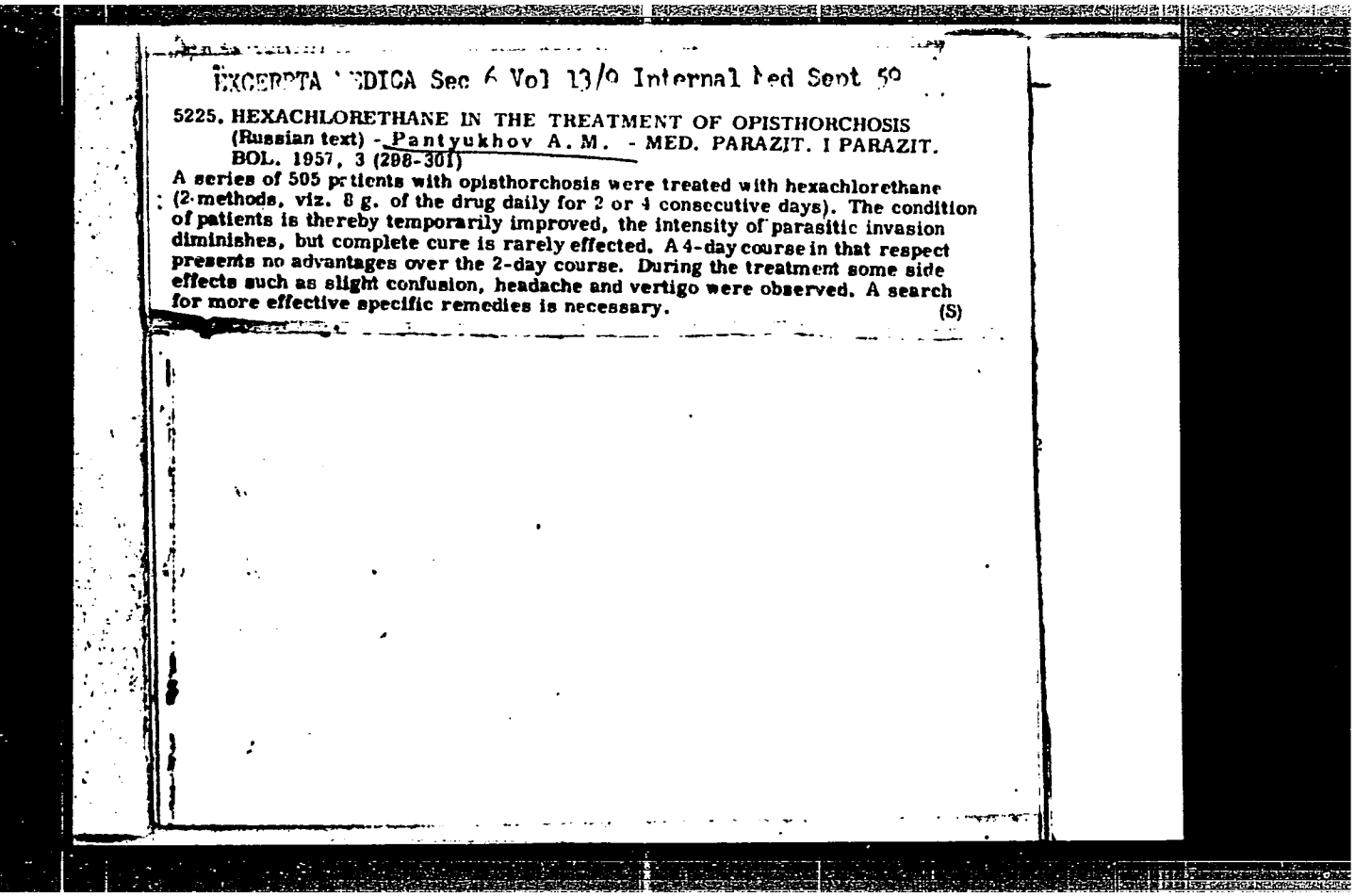

EXCERPTA MEDICA Sec 6 Vol 13/9 Internal Med Sept 59

5225. HEXACHLORETHANE IN THE TREATMENT OF OPISTHORCHOSIS (Russian text) - Pantyukhov A. M. - MED. PARAZIT. I PARAZIT. BOL. 1957, 3 (298-301)

A series of 505 patients with opisthorchosis were treated with hexachlorethane (2 methods, viz. 8 g. of the drug daily for 2 or 4 consecutive days). The condition of patients is thereby temporarily improved, the intensity of parasitic invasion diminishes, but complete cure is rarely effected. A 4-day course in that respect presents no advantages over the 2-day course. During the treatment some side effects such as slight confusion, headache and vertigo were observed. A search for more effective specific remedies is necessary. (S)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, A.M.

Echinococcosis of the mediastinum and of the pericardium. Sov.med. 20 no.12:62-63 D '56. (MLRA 10:1)

1. Iz Pavlodarskoy oblastnoy bol'nitsy (glavnyy vrach M.D.Gupalova)
(MEDIASTINUM, dis.
echinococcosis)
(PERICARDIUM, dis.
echinococcosis)
(ECHINOCOCCOSIS, case reports
mediastinum & pericardium)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

Pantyukhov, A.M.

PANTYUKHOV, A.M.

Problem of hexachloroethane therapy in opistorchiasis [with summary in English]. Med.paraz. i paraz.bol. 26 no.3:296-301 My-Je '57. (MIRA 10:11)

1. Iz Pavlodarskoy oblastnoy bol'nitsy (glavnyy vrach M.D.Gupalova)

(ANTHELMINTICS, therapeutic use,
hexachloroethane in opistorchiasis (Rus))
(THEMATODE INFECTIONS, therapy,
opistorchiasis, hexachloroethane ther. (Rus))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, A.M.

Data for the study of echinococcosis in Pavlodar Province.
Zdrav. Kazakh. 22 no.8:3-6 '62 (MIRA 17:4)

1. Iz Pavlodarskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

| | |
|---|---|
| COUNTRY | : USSR ✓ |
| CATEGORY | : Pharmacology, Toxicology. Chemotherapeutic Preparations. Antihelminthic Substances |
| [illegible] | : RZhBiol., No. 121258, No. 56848 |
| AUTHOR | : Pantyukhov, A.M. |
| INST. | : - |
| TITLE | : The Problem of the Treatment of Opisthorchiasis with Hexachlorethane |
| ORIG. PUB. | : Med. Parazitol. i Parazitarn. Bolezni, 1957, Vol.26, No.5, 299-301 |
| ABSTRACT | : 505 patients with opisthorchiasis were treated with hexachlorethane (I) by the method of N.N.Plotnikov. I was given in doses of 8 gm 2 or 4 days in succession. A positive effect was obtained in 70 of 193 patients. The author points out that the administration of I in doses of 8 gm a day for 4 days exhibits no advantage over the 2-day course. -- T.V. |

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, A.M.

Clinical aspects and treatment of a double invasion of Opistorchis and Lamblia. Zdrav.Kazakh. 17 no.1:38-39 '57. (MIRA 12:6)

1. Iz Pavlodarskoy oblastnoy bol'nitsy (glavvrach - M.D. Gupalova).

(LIVER FLUKE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, A.M.

Some problems in the epidemiology of opisthorchiasis in Pavlodarsk Province. Med.paraz.i paraz.bol. 29 no.3:347-348 '60.
(MIRA 13:12)

(PAVLODAR PROVINCE--LIVER FLUKES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, G.A.

Geographical variability of cold hardiness in certain insects [with English summary in insert]. Zool.zhur. 35 no.9:1312-1324 S '56.
(MLRA 9:12)

1. Yestestvenno-nauchnyy institut imeni P.F.Lesgafta.
(Insects) (Cold--Physiological effect)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, G.A.

Winter hardiness of larvae of the European elm bark beetle (Scolytus multistriatus Marsh.) [with summary in English]. Zool. zhur. 37 no.9: 1339-1344 S '58. (MIRA 11:10)

1.Zoologicheskiy institut AN, Leningrad.
(Cold--Physiological effect) (Larvae--Insects) (Bark beetles)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

USSR / Farm Animals. The Silkworm. Q

Abs Jour: Ref Zhur-Biol., No 5, 1959, 21363.

Author : Pantyukhov, G. A.
Inst : Academy of Pedagogical Sciences RSFSR.
Title : Studying the Growth and Development of the China Oak Silkworm.

Orig Pub: Izv. Akad. ped. nauk. RSFR, 1957 (1958), vyp. 85, 242-248.

Abstract: No abstract.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, G.A.

Physiological changes in the body of Chilocorus renipustulatus Scriba as related to different wintering conditions. Vop. ekol. 7:130-131 '62. (MIRA 16:5)

1. Zoologicheskiy institut AN SSSR, Leningrad.
(Hibernation) (Ladybirds)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, G.A.

Effect of temperatures above freezing point on different geographical populations of the brown-tail moth Euproctis chrysorrhoea L. and gypsy moth Lymantria dispar L. (Lepidoptera, Orgyidae). Ent. oboz. 41 no.2:274-284 '62. (MIRA 15:11)

1. Zoologicheskiy institut AN SSSR, Leningrad.
(Gypsy moth) (Brown-tail moth)
(Temperature—Physiological effect)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, G.A.

Effect of subfreezing temperatures on different populat'ons of the brown-tail moth Euproctis chrysorrhoea L. and the gypsy moth Lymantria dispar L. (Lepidoptera, Orgyidae). Ent. oboz. 43 no.1:94-111 '64 (MIRA 17:6)

1. Zoologicheskiy Institut AN SSSR, Leningrad.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

Pantyukhov I.V.

121-4-24/32

AUTHORS: Kondashevskiy, V.V. and Pantyukhov, I.V.

TITLE: Inspection During the Grinding of Components with Form Surfaces (Kontrol' pri shlifovanii detaley s fasonnymi poverkhnostyami)

PERIODICAL: Stanki i Instrument, 1958, No.4, p.38 (USSR).

ABSTRACT: A simple, mechanical lever system with dial gauge is illustrated to inspect components ground by copying from a master.

There is 1 figure.

AVAILABLE: Library of Congress

Card 1/1

1. Inspection-Methods

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

19600

S/123/61/000/005/004/017
A004/A104

AUTHORS: Kondashevskiy, V. V., Korchemkin, A. D., Pantyukhov, I. V., Sukhorukov, Yu. N.

TITLE: Mechanization and automation of component checking during the grinding process

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 5, 1961, 37, abstract 5B334. ("Tr. Omskogo mashinostroit. in-ta", 1959, no. 3, 113-127)

TEXT: The authors describe the designs of active checking devices and present the circuits of: suspension-type three-pronged indicator gap gage; indicator gap gage with rod; indicator gap gage with a lever suspended on flat steel springs positioned in the form of a cross; indicator gap gage with a lever suspended on a flat steel spring; lever-type indicating device for the checking of holes; lever-type device for the checking of components with profiled surfaces. There are 10 figures.

E. Dymova

[Abstractor's note: Complete translation]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

LUR'YE, G.B., prof.; POLYANSKIY, P.M., kand.tekhn.nauk; PANTYUKHOV, I.V.; TUROVA, V.M.

Automatic control of the grinding of tracks for conical roller bearings. Mashinostroitel' no.1:16-18 Ja '65.

(MIRA 18:3)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

MAL'TSEV, V.V., kand.tekhn.nauk; PANTYUKHOV, L.L., kand.tekhn.nauk

Calculation of the ventilation system of enclosed asynchronous motors with 0.6 to 100 kw. power rating. Vest. elektroprom. 33 no.3:24-28 Mr '62. (MIRA 15:3)
(Electric motors, Induction--Cooling)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

SHELEKHOV, S.A., inzh.; GLANTS, A.Ya., inzh.; MODZELEVSKIY, V.V., inzh.; ZYATITSKIY, A.Ya., inzh.; PANTYUKHOV, L.L., kand.tekhn.nauk

Series of AR electric motors for driving roll tables. Vest. elektroprom. 32 no.10:30-37 O '61. (MIRA 14:9)
(Metallurgical plants--Electric equipment)
(Electric motors)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, L.L., kandidat tekhnicheskikh nauk.

In the Technical Council of the Ministry of the Electric Industry. Vest.elektroprom. 27 no.5:71-73 My '56. (MLRA 9:12)

(Electric machinery)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2"

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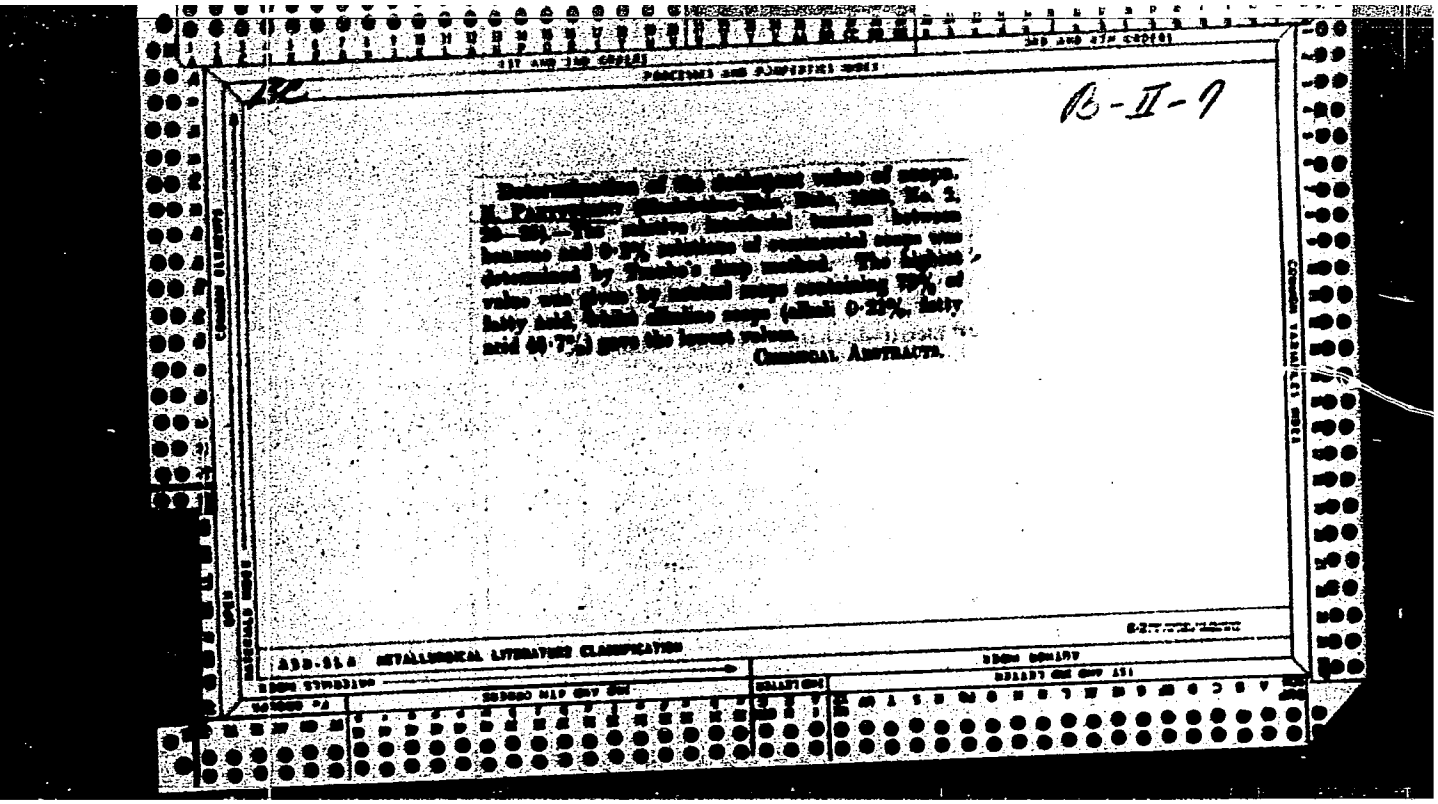


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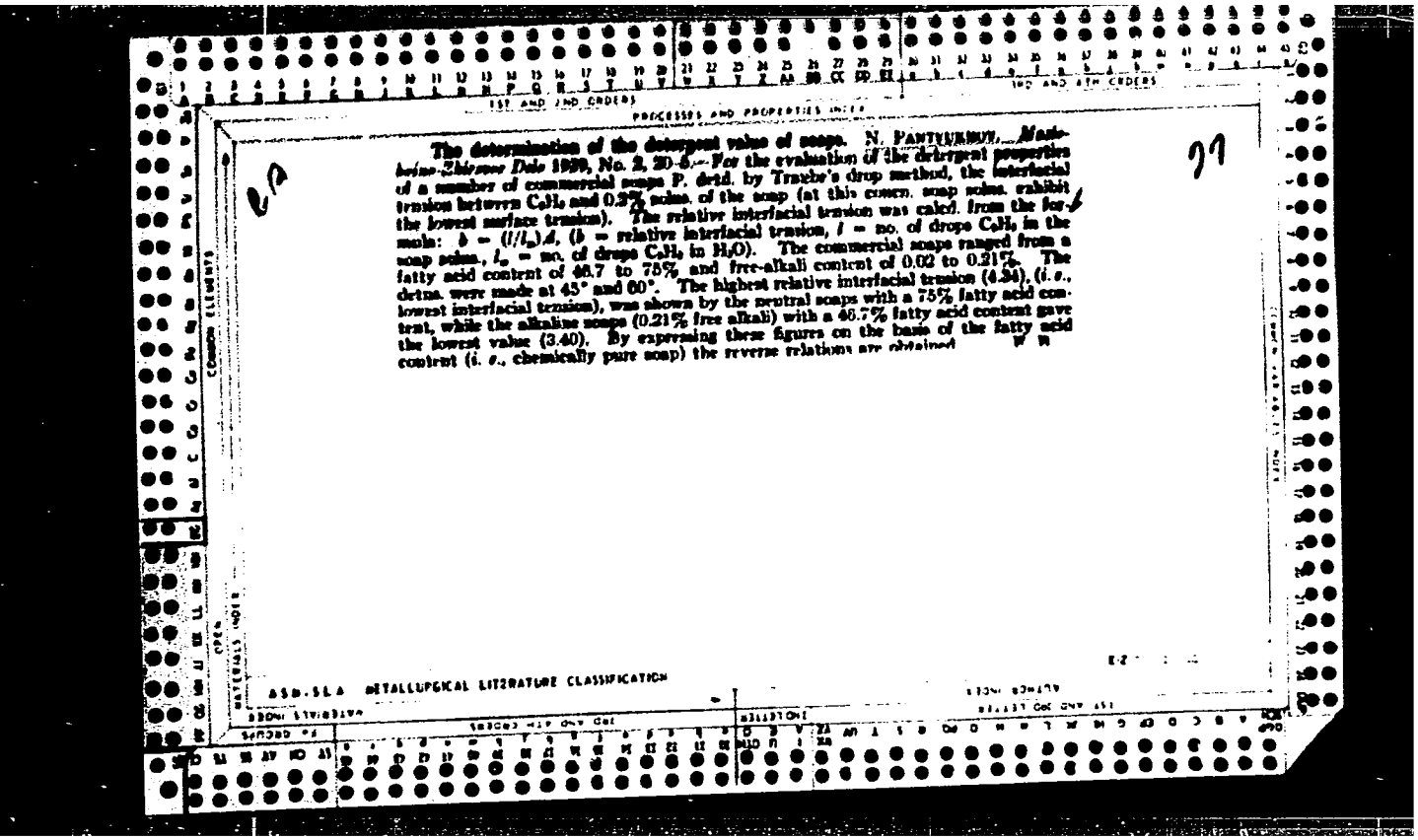

The determination of the detergent value of soaps. N. PANTUKHOV. *Maslo-Zhirovoe Delo* 1939, No. 2, 20-5.—For the evaluation of the detergent properties of a number of commercial soaps P. detd. by Traube's drop method, the interfacial tension between $C_6H_6$ and 0.2% soln. of the soap (at this concn. soap solns. exhibit the lowest surface tension). The relative interfacial tension was calcd. from the formula: $b = (l/l_0)A$, ($b$ = relative interfacial tension, $l$ = no. of drops $C_6H_6$ in the soap soln., $l_0$ = no. of drops $C_6H_6$ in $H_2O$). The commercial soaps ranged from a fatty acid content of 66.7 to 75% and free-alkali content of 0.02 to 0.21%. The detns. were made at 45° and 60°. The highest relative interfacial tension (4.34), (*i. e.*, lowest interfacial tension), was shown by the neutral soaps with a 75% fatty acid content, while the alkaline soaps (0.21% free alkali) with a 66.7% fatty acid content gave the lowest value (3.40). By expressing these figures on the basis of the fatty acid content (*i. e.*, chemically pure soap) the reverse relations are obtained

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOV, N. D.

"The Utilization of Nonspecific Irritants (Tissue Preparations Prepared According to V. P. Filatov's Method) During the Diagnosis of Brucellosis in Cattle." Cand Agr Sci, Kiev Veterinary Inst, Min Higher Education USSR, Belaya Tserkov', 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi. R

Abs Jour: Ref Zhur-Biol., No 3. 1958, 12244.

Author : Pantyukhov, N. P.
Inst : Belaya Tserkov' Farm Institute
Title : Application of Non-Specific Stimulants (Tissue Preparations According to the Method of Academician V. P. Filatov) for the Diagnosis of Brucellosis in Large Horned Cattle.

Orig Pub: Nauchn. zap. Belotserkovsk. s.-kh. in-ta, 1957, 6, 167-177.

Abstract: After a single 10 ml. subcutaneous injection of a tissue extract prepared from sugar beet tops was administered to an animal afflicted with brucellosis, a rise in agglutinins was noted, as well as of the

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USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi. R

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12244.

complement-fixing blood substances which went up to the level of a diagnostically significant titer. A rise in the titer of immune bodies was observed from the third until the 12th day (inclusive), and a descent took place from the 20th to the 30th day after the injection of the extract. According to the author's data, application of the extract prepared from sugar beet tops enables us to expose more fully animals which are infected with brucellosis and to make an early diagnosis.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

COUNTRY : USSR
CATEGORY : Cultivated Plants. Potatoes. Vegetables. Cucurbits.
ABS. JOUR. : Ref Zhur-Biologiya, No.1 , 1959, No. 1647

Author : Pantyukhova, I.
INST. : Moscow Agric. Acad.
TITLE : The Effect of Copper Feedings on Accelerated Ripening of Tomatoes and their Quality.

ORIG. PUB. : Sb. stud. nauchno-issled. rabot Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957, (1958), vyp.7

ABSTRACT : At the Kuruchonev Kolkhoz, Moskovskaya Oblast, in podzolic sandy-loamy soils in a small scale experiment twofold feeding of tomatoes of the Mayak variety with $CuSO_4 \cdot 5 H_2O$ towards the end of planting period, and a single feeding after transplantation in the soil estimated at 2.5 mg of the feed per single plant with foliar feeding of 3 mg per plant during the blooming period, hastened the ripening of the fruits by 5 days, the fruits con-

CARD : 1/2 *139-112



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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOVA, O.N.

Analgesic effect of intralumbar administration of vitamin $B_1$ in peptic ulcer. Trudy LSGMI 20:225-230 '54. (MLRA 10:8)

1. Klinika nervnykh bolezney Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. klinikoy - zasl. deyatel' nauki, chlen-korr. AMN SSSR, prof. I.Ya.Rasdol'skiy i Kafedra propedevtiki vnutrennikh bolezney Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. kafedroy - prof. S.M.Ryss.

(PEPTIC ULCER, therapy,
vitamin B1, analgesic eff. in intralumbar admin.)
(VITAMIN B1, therapeutic use
peptic ulcer, analgesic eff. in intralumbar admin.)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239120001-2

PANTYUKHOVA, O.N.

AFANAS'YEVA, Ye.K.; PANTYUKHOVA, O.N.

Treatment and indications for sleep therapy in peptic ulcer according to the type of the nervous system. Trudy LSGMI 20:237-246 '54. (MIRA 10:8)

1. Kafedra propedevtiki vnutrennikh bolezney Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. kafedroy - prof. S.M. Ryss i Klinika nervnykh bolezney Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. klinikoy - chlen-korrespondent AMN SSSR, prof. I.Ya.Razdol'skiy

(PEPTIC ULCER, therapy,
sleep ther., indic.)
(SLEEP, therapeutic use,
peptic ulcer, indic.)

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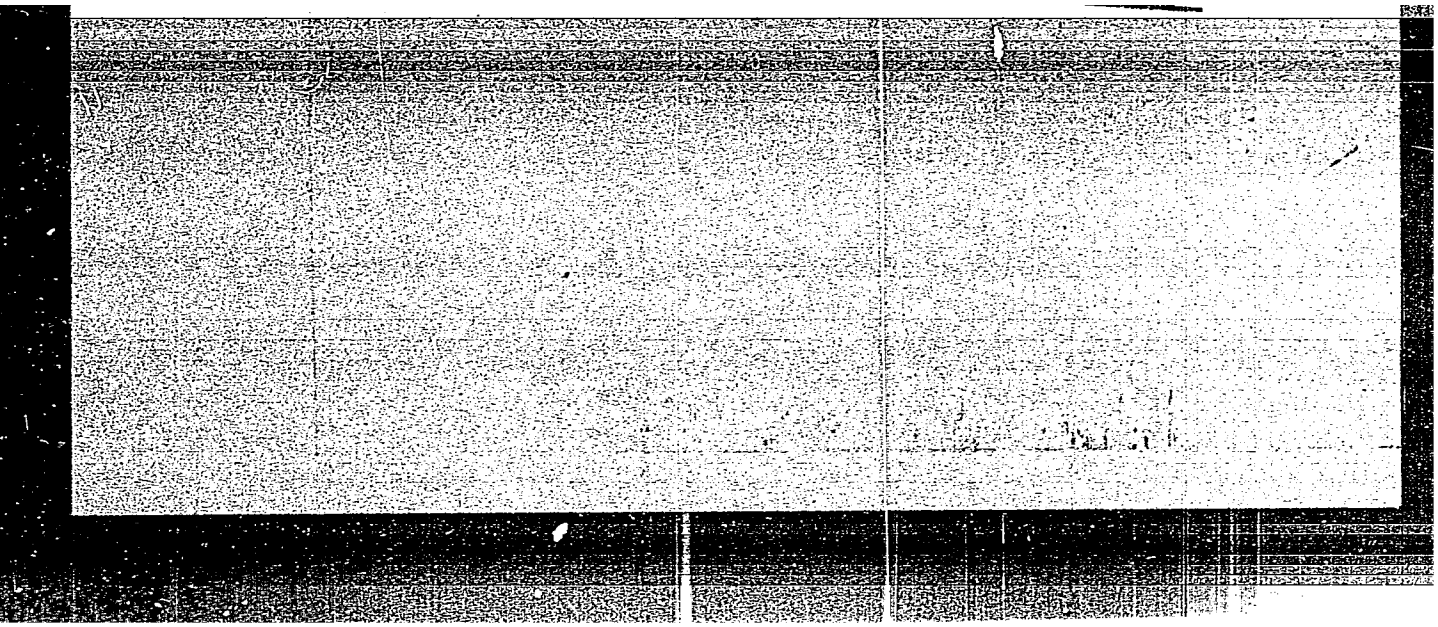

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PANTYUKHOVA V V

ACCESSION NR: AT4042681 S/0000/63/000/000/0185/0188

AUTHOR: Zhukov-Verezhnikov, N. N.; Mayskiy, I. N.; Yazdovskiy, V. I.; Pekhov, A. P.; Ry*bakov, N. I.; Tribulev, G. P.; Saksonov, P. P.; Dobrov, N. N.; Antipov, V. V.; Kozlov, V. A.; Vy*sotskiy, V. G.; Mishenko, B. A. Ry*bakova, D. K.; Parfenov, G. P.; Pantyukhova, V. V.; Yudin, Ye. V.; Aniskin, Ye. D.

TITLE: The evaluation of the biological effectiveness of space-flight factors with the aid of lysogenic bacteria

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 185-188

TOPIC TAGS: lysogenic bacteria, biological sensor, radiation detector, bacteriophage, phage, vibration, irradiation/Vostok III, Vostok IV

ABSTRACT: Lysogenic bacteria, E. coli K-12 (λ), was carried on spaceships

Card 1/3

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